



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,986	08/31/2001	N. Leigh Anderson	42166	7960
1609	7590	10/05/2004	EXAMINER	
ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P.			CHOI, LING SIU	
1300 19TH STREET, N.W.				
SUITE 600			ART UNIT	PAPER NUMBER
WASHINGTON,, DC 20036			1713	

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/942,986	ANDERSON ET AL.
	Examiner	Art Unit
	Ling-Siu Choi	1713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) 5-40 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-4 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 31 August 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All
  - b) Some \*
  - c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

## DETAILED ACTION

### *Election/Restriction*

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-4, drawn to an **apparatus** to unload a gel from a tube, classified in class 204, subclass 601.
  - II. Claims 5-15, drawn to a **guide assembly**, classified in class 204, subclass 602.
  - III. Claims 16-40, drawn to an **assembly to guild a plurality of gel onto an edge of a respective second dimension electrophoresis gel**, classified in class 204, subclass 605.
2. The inventions are distinct, each from the other because of the following reasons:  
Inventions I, II, and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions relates to an **apparatus to unload a gel from a tube**, a **guide assembly**, and an **assembly to guild a plurality of gel onto an edge of a respective second dimension electrophoresis gel**.
3. During a telephone conversation with Mr. John C. Robbins on August 3, 2004, a

provisional election was made with traverse to prosecute the invention of claims 1-4, Group I. Affirmation of this election must be made by applicant in replying to this Office action. Claims 5-40 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

#### ***Double Patenting***

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claim 1 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 39 of U.S. Patent No. 6,783,648. Although the conflicting claims are not identical, they are not patentably distinct from each other because the recitation "plaurality of electrophoresis gel tubes to unload said electrophoresis gel onto said top edges of said plaurality of vertically oriented gel slabs" in claim 39 of US 6,783,648 to Anderson et al. suggests that there is a guild member onto which a gel being unloaded.

***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

**A person shall be entitled to a patent unless --**

**(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.**

8. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakanura (US 5,292,420).

The present invention relates to an apparatus for unloading a gel from a tube, the apparatus comprising

	<b>an electrophoresis gel slab</b> having a longitudinal edge
A	<b>a guide member</b> coupled to the longitudinal edge, having a least one inclined guiding surface for guiding a gel to the longitudinal edge of the gel slab
B	<b>a first support assembly</b> for supporting at least one <b>tube</b> having an axial passage, a first open end, and a second open end, the first end of the tube being coupled to the first support
	<b>a second support</b> spaced from the first support
C	<b>a plunger</b> having a first end coupled to the <b>second support</b> and a second end axially aligned with the axial passage of the at least one tube
D	<b>a drive assembly</b> for sliding the at least one tube onto the plunger to unload the gel from the second end of at least one tube onto the guiding surface of the guide member

(summary of claim 1)

Nakanura discloses a two-dimensional gel electrophoresis apparatus comprising a first-dimensional gel housing, a second-dimensional gel housing, and gel transfer means for transferring the gel from the first-dimensional gel housing to one end of the second-dimensional gel housing, wherein the gel transfer means comprising (a) a **grasping mechanism** for grasping the first-dimensional gel housing, (b) a **moving mechanism** for raising up a lower end of the first-dimensional gel housing to a position higher than an upper end of the second-dimensional gel housing and horizontally moving the first-dimensional gel housing longitudinally along the upper end of the second-dimensional gel housing, and (c) an **extrusion mechanism** for extruding the

first-dimensional gel from the first-dimensional gel housing by a moving mechanism  
(claim 1).

***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*L.S. Choi*  
**LING-SIU CHOI**  
**PRIMARY EXAMINER**

Ling -Siu Choi, Ph.D.

September 27, 2004